PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

WIPO

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference			FOR FURTHER ACT	ON	See Form PCT/IPEA/416
030412WO					BCC I GIALLI CI'AL DIGGIO
International application No.			International filing date (da	ty/month/year)	Priority date (day/month/year)
PCT/US04/38198			15 November 2004 (15.11.		01 December 2003 (01.12.2003)
International Patent Classification (IPC)			or national classification and	IPC	
IPC: H04Q 7/00(2006.01) USPC: 370/329					
Applican	t				
QUALCOMM INCORPORATED					
1.	This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.				
2.	This REPORT consists of a total of \leq sheets, including this cover sheet.				
3.	This report is also accompanied by ANNEXES, comprising:				
	a. (sent to the applicant and to the International Bureau) a total of sheets, as follows:			sheets, as follows:	
	sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).				
	sheets which supersed earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.				
				tal af Gadinata tema	and number of electronic carrier(s))
 (sent to the International Bureau only) a total of (indicate type and number of electronic cartrie(s)) , containing a sequence listing and/or tubles related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions) 					
4.	This re	enort contains indic	ations relating to the follow	ving items:	
7.	This report contains indications relating to the fol Box No. I Basis of the report		_		
	$\overline{\Box}$	Box No. II P	riority		
			Ion-establishment of opini	on with regard to no	velty, inventive step and industrial
		Box No. IV	ack of unity of invention		
	\boxtimes	Box No. V R	teasoned statement under	Article 35(2) with	n regard to novelty, inventive step or ns supporting such statement
			Certain documents cited	acia ana arpianana	
	$\bar{\Box}$	Box No. VII C	Certain defects in the intern	ational application	
			ertain observations on the	vations on the international application	
Date of submission of the demand				Date of completion	or mis report
16 June 2005 (16.06.2005)				18 February 2006 (18	8.02.2006)
Name and mailing address of the IPEA/ US			US	Authorized officer	
Mail Stop PCT, Attn: IPEA/US					D. Ymaan
Commissioner for Patents P.O. Box 1450				Chí Pham	Rugenio Zoga-
Alexandria, Virginia 22313-1450				Telephone No. 571-	2723179

Facsimile No. (571) 273-3201 Form PCT/IPEA/409 (cover sheet)(April 2005)

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.	
PCT/US04/38198	

	101/000
ox No. I Basis of the report	
. With regard to the language, this report is based on:	
the international application in the language in which it was filed	
a translation of the international application into <u>English</u> , which purposes of:	is the language of a translation furnished for the
international search (under Rules 12.3 and 23.1(b))	
publication of the international application (under Rule 12.	.4(a))
international preliminary examination (under Rules 55.2(a)) and/or 55.3(a))
 With regard to the elements of the international application, this report is bas to the receiving Office in response to an invitation under Article 14 are refer annexed to this report): 	sed on (replacement sheets which have been furnished cred to in this report as "originally filed" and are not
the international application as originally filed/furnished	
the description: pages 1-33 as originally filed/furnished	
e NONE received by this Authority on	
pages* NONE received by this Authority on	
the claims:	
as amended (fogether with any statemen	nt) under Article 19
pages* NONE received by this Authority on pages* NONE received by this Authority on received by this Authority on	
pages* NONE received by this Authority on	
the drawings:	
pages 1-10 as originally filed/furnished pages* NONE received by this Authority on	
pages* NONE received by this Authority on	
a sequence listing and/or any related table(s) - see Supplementa	al Box Relating to Sequence Listing.
3. The amendments have resulted in the cancellation of:	
the description, pages	
the claims, Nos.	
the drawings, sheets/figs	
the sequence listing (specify):	
any table(s) related to the sequence listing (specify):	
This report has been established as if (some of) the amendments anno since they have been considered to go beyond the disclosure as filed,	exed to this report and listed below had not been made, , as indicated in the Supplemental Box (Rule 70.2(c)).
the description, pages	
the claims, Nos.	
the drawings, sheets/figs	
the sequence listing (specify):	
any table(s) related to the sequence listing (specify):	
* If item 4 applies, some or all of those sheets may be marked "supers	seded."

' INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

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Statement		
Novelty (N)	Claims 4-8, 10-19, 21-24, 26-29, 31-36, and 38-45	YES
Novelly (IV)	Claims 1-3, 9, 20, 25, 30, and 37	NO
	Claims 4-8, 10-19, 21-24, 26-29, 31-36, and 38-45	YES
Inventive Step (IS)	Claims 1-3, 9, 20, 25, 30, and 37	NO
	Claims 1-45	YES
Industrial Applicability (IA)	Claims NONE	NO.
. Citations and Explanations (Rule 70.7) lease See Continuation Sheet	•	

, INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

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Supplemental Box	
li l	
In case the space in any of the preceding boxes is not sufficient.	
Continuation of:	

V. 2. Citations and Explanations: Claims 1-3, 9, 20, 25, 30 and 37 lack novelty under PCT Article 33(2) as being anticipated by Zhang, H. et al (WO 03/010984 A1). Hereinafter, referred to as Zhang.

With respect to claims 1, 20, and 30, Zhang discloses a method for processing information in a communication system (Fig. 2), comprising:

partitioning a control channel (Fig. 2, F-CPCCH) used for transmitting control information into a plurality of subchannels, each subchannel being operated at a specific data rate (Fig. 2, F-CPCCH, bit 12 operates at 1/4 full rate);

selecting, for each of one or more user terminals, one of the subchannels to be used for transmitting control information from an access point to the respective user terminal, based on one or more selection criteria (Figs. 3-5, selected subchannels with data rate of 1, 1/4, 1/8, or both depending whether the terminals are in active state or control hold state); and

transmitting control information from the access point to a particular user terminal on a particular subchannel selected for the respective user terminal (Fig. 2, F-CPCCH, power control bit 12th).

With respect to claim 2, Zhang discloses that wherein control information is transmitted in a segment of data frame specifically allocated for the control channel (Fig. 2, F-CPCCH, time slots 1 or 5).

With respect to claim 3, Zhang discloses that wherein each subchannel is associated with a specific set of operating parameters (Fig. 2, F-CPCCH, time slots 1 and 5 are used).

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Supp	eme	ntal	Bo:

With respect to claims 9, 25, and 37, Zhang discloses a method for processing information in a communication system (Fig. 2), comprising:

segregating a control channel into a plurality of subchannels each of which being operable at a specific data rate (Fig. 2, F-CPCCH, bit 12 operates at ¼ full rate);

transmitting control information including resource allocation information from an access point to a user terminal on partial subchamenel of the pluratity of subchamenels selected for the user terminal, based on one or more selection critical (Fig. 2, F-CIPCCH, power control information transmitted in bit 12.9° of time solots 1 and 5, kt full date rate to terminals having control hold state); and

decoding, at the user terminal, one or more subchannels of the plurality of subchannels to obtain control information designated for the user terminal (page 13, lines 23-25, the MS in the control hold state monitors only these bits of the reduced rate power control subchannel assigned to it).

Claims 4-8, 10-19, 21-24, 26-29, 31-36 and 38-45 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest a decoder to decode one or more control subchannels to obtain control information designated for a particular user terminal, starting with a subchannel operated at a lowest data rate, until at least one of a plurality of conditions is met, as specified in independent claims 34, 40, and 45.

Claims 1-45 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the claimed subject matter can be made or used in industry.
NEW CITATIONS
NONE